

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Cinnamomum aromaticum*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Bark	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
38	(-)-EPICATECHIN	Bark	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
67	1,8-CINEOLE	Bark	--	--		Wealth of India.
67	1,8-CINEOLE	Plant	--	--		
0	19-MONOACETYL-CINCASSIOL-A	Plant	--	--		
0	2-HYDRO-ACETOPHENONE	Plant	--	--		
0	2-METHYL-BENZALDEHYDE	Plant	--	--		
0	2-METHYL-BUTYRIC-ACID	Plant	--	--		
0	2-VINYLPHENOL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3,4,5-TRIMETHOXYPHENOL-BETA-D-APIOFURANOSYL(1->6)BETA-D-GLUCOPYRANOSIDE	Bark	--	--		Wealth of India.
0	3-METHYL-BUTYRIC-ACID	Plant	--	--		
2	3-PHENYL-PROPYL-ACETATE	Plant	--	--		
0	3-PHENYLPROPANAL	Bark	39	490	1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	3-PHENYLPROPANAL	Leaf	30	75	1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	4-ALLYL-PHENOL	Plant	--	--		
0	4-ETHYL-GUAIACOL	Plant	--	--		
0	5,7,3-TRIMETHYL(-)-EPICATECHIN	Bark	--	--		Wealth of India.
0	5,7-DIMETHYL-3',4'-DI-O-METHYLENE-(+)-EPICATECHIN	Bark	--	--		Wealth of India.
0	ACETOEUGENOL	Plant	--	--		
0	ALCOHOLS	Bark	105	1300	-1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALCOHOLS	Leaf	125	305	-0.8254391692690214	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	ALDEHYDES	Bark	1845	23040	-1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	ALDEHYDES	Leaf	2340	5815	2.083554219778906	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
28	ALPHA-PINENE	Plant	--	--		
28	ALPHA-PINENE	Bark	--	--		Wealth of India.
13	ALPHA-TERPINENE	Plant	--	--		
23	ALPHA-TERPINEOL	Plant	--	--		
23	ALPHA-TERPINEOL	Bark	--	--		
0	ANHYDROCINNZEYLANINE	Bark	--	--		Wealth of India.
0	ANHYDROCINNZEYLANINE	Plant	--	--		
0	ANHYDROCINNZEYLANOL	Bark	--	--		Wealth of India.
0	ANHYDROCINNZEYLANOL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Bark	309	309	0.13185661758936892	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BARIUM	Bark	140	140	1.724114679646174	
24	BENZALDEHYDE	Bark	--	--		
20	BENZOIC-ACID	Bark	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
17	BENZYL-BENZOATE	Leaf	1800	22500	1	Wealth of India.
17	BENZYL-BENZOATE	Plant	--	--		
53	BETA-CAROTENE	Bark	1	2	-0.7112344242846967	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BETA-CARYOPHYLLENE	Leaf	--	--		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	BETA-CARYOPHYLLENE	Stem Bark	--	--		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
13	BETA-PINENE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Bark	--	--		Wealth of India.
3	BETA-SELINENE	Plant	--	--		
0	BROMINE	Bark	10	10	-0.707106781186548	
28	CALCIUM	Bark	4900	13569	-0.48777912900429643	
4	CALCIUM-OXALATE	Plant	--	--		
9	CAMPHENENE	Plant	--	--		
0	CARBOHYDRATES	Bark	798000	914000	1.2415331037573605	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CASSIOSIDE	Bark	--	--		Wealth of India.
3	CHAVICOL	Plant	--	--		
7	CHLORINE	Bark	70	70	-1.5000780985604363	
24	CHROMIUM	Bark	1	1	-0.48598491785883197	
0	CINCASSIOL-A	Bark	--	--		Wealth of India.
0	CINCASSIOL-A	Plant	--	--		
0	CINCASSIOL-A-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-B	Plant	--	--		
0	CINCASSIOL-B	Bark	--	--		Wealth of India.
0	CINCASSIOL-B-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-C-1	Plant	--	--		
0	CINCASSIOL-C-1	Bark	--	--		Wealth of India.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CINCASSIOL-C-1-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-C-2	Plant	--	--		
0	CINCASSIOL-C-2-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-C-3	Plant	--	--		
0	CINCASSIOL-C-3-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-1	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-1	Plant	--	--		
0	CINCASSIOL-D-1-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-2	Plant	--	--		
0	CINCASSIOL-D-2-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-3	Plant	--	--		
0	CINCASSIOL-D-3-GLYCOSIDE	Bark	--	--		Wealth of India.
1	CINCASSIOL-D-4	Plant	--	--		
1	CINCASSIOL-D-4	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-4-GLYCOSIDE	Bark	--	--		Wealth of India.
60	CINNAMALDEHYDE	Bark	80	1900	-1	
18	CINNAMIC-ACID	Bark	--	--		Wealth of India.
0	CINNAMIC-ALDEHYDE-CYCLIC-GLYCEROL-1,3-ACETAL	Bark	--	--		Wealth of India.
0	CINNAMOSIDE	Bark	--	--		Wealth of India.
0	CINNAMTANNIN-A1	Bark	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CINNAMTANNIN-A2	Bark	--	--		
0	CINNAMTANNIN-A3	Bark	--	--		
0	CINNAMTANNIN-A4	Bark	--	--		
0	CINNAMTANNINS	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
3	CINNAMYL-ACETATE	Plant	--	--		
3	CINNAMYL-ACETATE	Bark	--	--		
6	CINNAMYL-ALCOHOL	Plant	--	--		
6	CINNAMYL-ALCOHOL	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	CINNZEYLANINE	Bark	--	--		Wealth of India.
0	CINNZEYLANINE	Plant	--	--		
0	CINNZEYLANOL	Bark	--	--		Wealth of India.
0	CINNZEYLANOL	Plant	--	--		
0	CIS-2-METHOXY-DIHYDROCINNAMIC-ACID	Plant	--	--		
0	CIS-CINNAMIC-ACID	Bark	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	CIS-CINNAMIC-ALDEHYDE-CYCLIC-GLYCEROL-1,3-ACETAL	Bark	--	--		Wealth of India.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Bark	2	10	1.8708286933869704	
57	COUMARIN	Bark	--	--		
5	CRESOL	Plant	--	--		
10	CUMINALDEHYDE	Bark	--	--		Wealth of India.
10	CUMINALDEHYDE	Plant	--	--		
3	DECANOIC-ACID	Plant	--	--		
0	DIHYDROCINNAMIC-ACID	Plant	--	--		
0	EO	Bark	2000	25000	1.2183677169545755	
0	EO	Leaf	3100	7700	-0.33732858173305946	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
40	EPICATECHIN	Bark	--	--		
0	EPICATECHIN-(4-BETA->8)5-EPICATECHIN	Bark	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
2	ETHYL-CINNAMATE	Plant	--	--		
0	ETHYL-GUAIACOL	Plant	--	--		
76	EUGENOL	Leaf	2.8	400	-0.7691912627599603	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
76	EUGENOL	Bark	1.8	375	-0.690064810647921	
76	EUGENOL	Plant	--	--		
17	FARNESOL	Plant	--	--		
0	FAT	Bark	35000	35000	1.1664647650566211	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	FENCHONE	Plant	--	--		
6	FENCHONE	Leaf	--	--		Wealth of India.
15	FIBER	Bark	270000	270000	1.0512083111257384	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	FURFURAL	Plant	--	--		
11	GAMMA-TERPINENE	Plant	--	--		
13	GERANIAL	Plant	--	--		
18	GUAIACOL	Plant	--	--		
18	GUAIACOL	Bark	--	--		Wealth of India.
0	HEPTANOIC-ACID	Plant	--	--		
0	HEX-3-EN-1-OL	Leaf	--	--		Wealth of India.
0	HEX-3-EN-1-OL	Plant	--	--		
2	HEXANOIC-ACID	Plant	--	--		
3	HEXANOL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	HEXANOL	Leaf	--	--		Wealth of India.
2	HUMULENE	Plant	--	--		
0	HYDROCINNAMALDEHYDE	Bark	--	--		
0	HYDROCINNAMALDEHYDE	Plant	--	--		
0	HYDROXYCINNAMALDEHYDE	Leaf	--	--		Wealth of India.
12	IODINE	Bark	1	1	-1	
6	IRON	Bark	25	421	0.988562022605988	
16	ISOEUGENOL	Plant	--	--		
0	KETONES	Bark	--	--		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	KETONES	Leaf	25	37		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
60	LIMONENE	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	LINALOL	Plant	--	--		

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53	LINALOOL	Leaf	0.6	1.5	-0.6464051224345422	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
53	LINALOOL	Bark	2.5	32	-1.1955124013453908	Wealth of India.
0	LYONIRESINOL-3-ALPHA-O-BETA-D-GLUCOPYRANOSIDE	Bark	--	--		Wealth of India.
65	MAGNESIUM	Bark	770	1680	-0.04773619944219244	
14	MANGANESE	Bark	167	600	3.337609687601768	
1	MELILOTIC-ACID	Bark	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	MERCURY	Bark	60	60	1.7318980549844427	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
1	MERCURY	Plant	--	60	2.8767265147515726	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	METHYL-BENZOATE	Plant	--	--		
6	METHYL-CHAVICOL	Plant	--	--		
5	METHYL-CINNAMATE	Plant	--	--		
20	METHYL-EUGENOL	Bark	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	METHYL-FURFURYL	Plant	--	--		
0	METHYL-O-CUMARALDEHYDE	Bark	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
0	METHYL-OCTANOATE	Plant	--	--		
0	METHYL-SALICYALDEHYDE	Bark	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
21	METHYL-SALICYLATE	Bark	--	--		Wealth of India.
21	METHYL-SALICYLATE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	MUCILAGE	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	NONANAL	Plant	--	--		
2	NONANOIC-ACID	Plant	--	--		
1	O-ANISALDEHYDE	Plant	--	--		
6	O-METHOXYCINNAMALDEHYDE	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	O-METHYL-COUMARALDEHYDE	Bark	--	--		Wealth of India.
5	OCTANOIC-ACID	Plant	--	--		
25	OPC	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
16	P-CYMENE	Plant	--	--		
26	PHENOL	Plant	--	--		
0	PHENOLS	Leaf	225	560	-0.43896235712958537	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHENOLS	Bark	27	335	-1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	PHENYL-ETHYL-ALCOHOL	Plant	--	--		
0	PHENYLETHYL-ACETATE	Plant	--	--		
0	PHENYLPROPYL-ACETATE	Plant	--	--		
4	PHOSPHORUS	Bark	1000	1000	-0.17573390155376353	
14	POTASSIUM	Bark	3020	15500	2.05417764366398	
17	PROCYANIDIN-A-2	Bark	--	--		
1	PROCYANIDIN-B-1	Bark	--	--		
1	PROCYANIDIN-B-2	Bark	--	--		
0	PROCYANIDIN-B-5	Bark	--	--		
0	PROCYANIDIN-B-7	Bark	--	--		
0	PROCYANIDIN-B26C-BETA-D-GLUCOPYRANOSIDE	Bark	--	--		Wealth of India.
0	PROCYANIDIN-B28-BETA-D-GLUCOPYRANOSIDE	Bark	--	--		Wealth of India.
0	PROCYANIDIN-C-1	Bark	--	--		
27	PROCYANIDINS	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

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0	PROTEIN	Bark	43000	43000	-1.339513177571366	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Bark	1	2	-0.373874772923094	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	RUBIDIUM	Bark	30	30	1.2107130728039	
5	SABINENE	Plant	--	--		
29	SAFROLE	Plant	--	--		
0	SALICYALDEHYDE	Bark	--	--		
34	SALICYLIC-ACID	Plant	--	--		
1	SODIUM	Bark	42	287	-0.13196665474928823	
0	STRONTIUM	Bark	50	50	-1.3471506281091268	
3	STYRENE	Plant	--	--		
14	SULFUR	Bark	1200	1200	-0.12803687993289598	
35	TANNIN	Plant	--	--		
35	TANNIN	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
23	TERPINEN-4-OL	Plant	--	--		
9	TERPINOLENE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	THIAMIN	Bark	1	1	-0.0940720868383599	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	TITANIUM	Bark	50	50	1.5075567228888183	
0	TRANS-2-METHOXY-CINNAMALDEHYDE	Plant	--	--		
0	TRANS-2-METHOXY-CINNAMIC-ACID	Plant	--	--		
7	TRANS-CINNAMALDEHYDE	Plant	--	--		
7	TRANS-CINNAMALDEHYDE	Bark	3000	23750	-1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
7	TRANS-CINNAMALDEHYDE	Leaf	3000	5390	1	
0	TRANS-CINNAMIC-ACID	Plant	--	--		
0	TRANS-CINNAMIC-ACID	Bark	250	2500		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
77	ZINC	Bark	4	10	-0.27207069859955574	